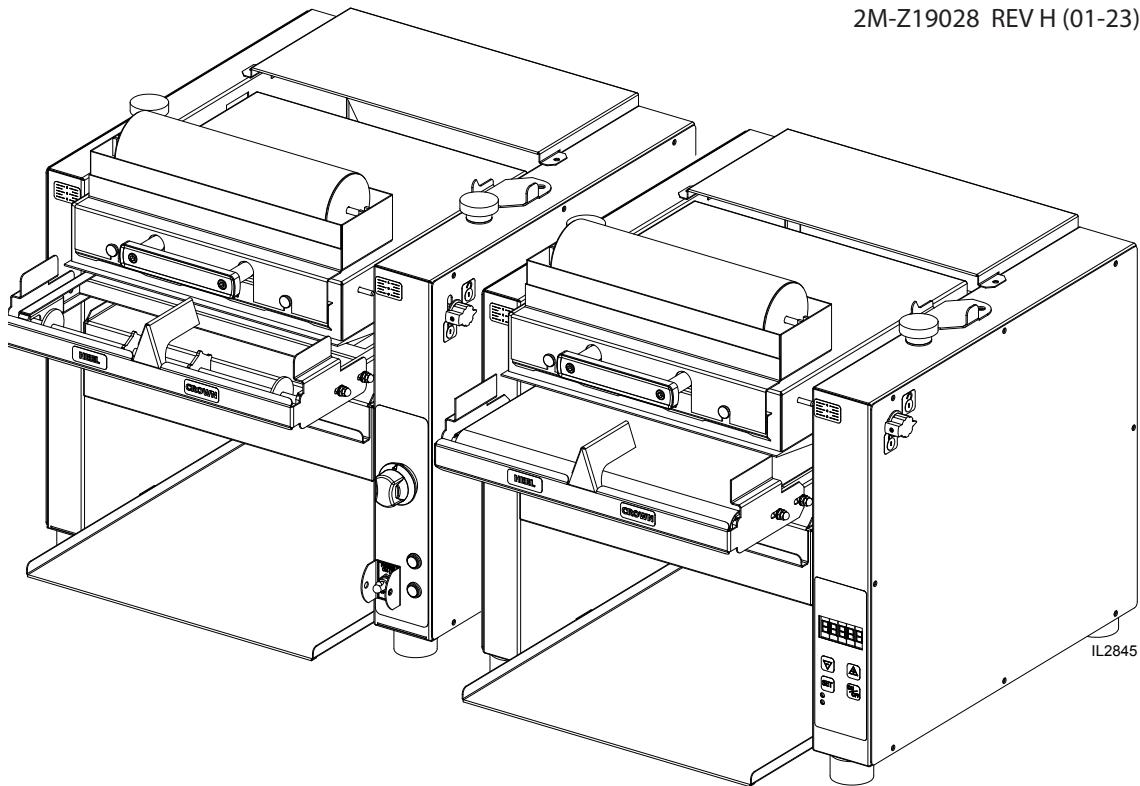




MODEL
HCT13M, HCT13S
HCTE13M, HCTE13S
**Installation and
Operation
Instructions**

2M-Z19028 REV H (01-23)



HCT13 & HCTE13
(Shown with optional butter wheel)

SAFETY SYMBOL



These symbols are intended to alert the user to the presence of important operating and maintenance instructions in the manual accompanying the appliance.

RETAIN THIS MANUAL FOR FUTURE REFERENCE

NOTICE

Using any part other than genuine Star factory supplied parts relieves the manufacturer of all liability.

Star reserves the right to change specifications and product design without notice. Such revisions do not entitle the buyer to corresponding changes, improvements, additions or replacements for previously purchased equipment.

Due to periodic changes in designs, methods, procedures, policies and regulations, the specifications contained in this sheet are subject to change without notice. While Star International Holdings Inc., Company exercises good faith efforts to provide information that is accurate, we are not responsible for errors or omissions in information provided or conclusions reached as a result of using the specifications. By using the information provided, the user assumes all risks in connection with such use.

MAINTENANCE AND REPAIRS

Contact your local authorized service agent for service or required maintenance.

Please record the model number, serial number, voltage and purchase date in the area below and have it ready when you call to ensure a faster service.

Model No. _____

Authorized Service Agent Listing
Reference the listing provided with the unit

Serial No. _____

or

Voltage _____

for an updated listing go to:

Purchase Date _____

Website: www.star-mfg.com

Service Help Desk

Business Hours: 8:00 am to 4:30 p.m. Central Standard Time

Telephone: 1-800-264-7827

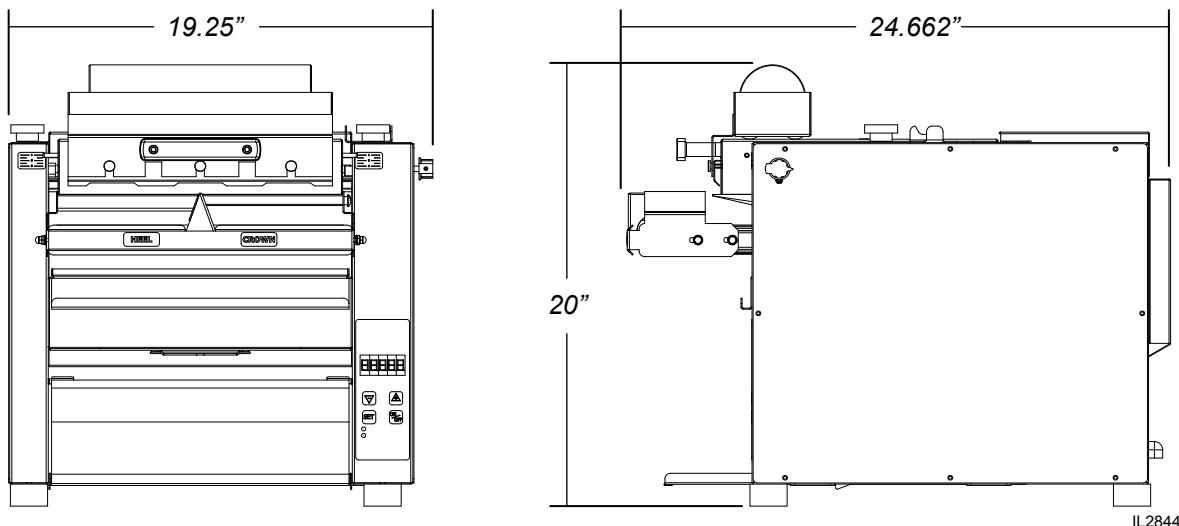
Website: www.star-mfg.com

Mailing Address: Star Manufacturing International Inc.
265 Hobson Street
Smithville, TN 37166
U.S.A

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SPECIFICATIONS

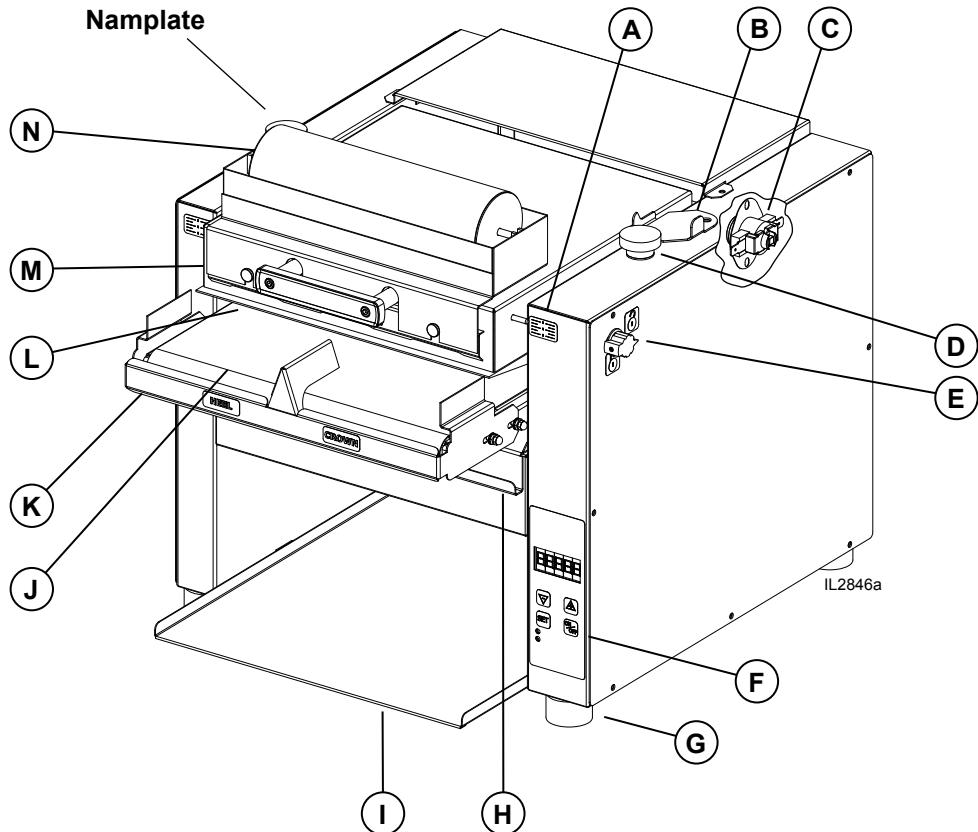


Electrical Specifications

| Model | Voltage | Hz | Ph | Amps | Watts | Powercord |
|---------|---------|----|----|-------|-------|-----------|
| HCTE13M | 208V | 60 | 1 | 13.5 | 2800 | 6-20P |
| | 230V | 50 | | 12 | 2750 | CEE7/VII |
| | 240V | 60 | | 12.5 | 3000 | 6-20P |
| HCTE13S | 208V | 60 | 1 | 12.25 | 2550 | 6-20P |
| | 230V | 50 | | 10.5 | 2450 | CEE7/VII |
| | 240V | 60 | | 11 | 2650 | 6-20P |

| | | | | | | |
|--------|------|----|---|-------|------|----------|
| HCT13M | 208V | 60 | 1 | 13.5 | 2800 | 6-20P |
| | 230V | 50 | | 12 | 2750 | CEE7/VII |
| | 240V | 60 | | 12.5 | 3000 | 6-20P |
| HCT13S | 208V | 60 | 1 | 12.25 | 2550 | 6-20P |
| | 230V | 50 | | 10.5 | 2450 | CEE7/VII |
| | 240V | 60 | | 11 | 2650 | 6-20P |

FEATURES & BENEFITS



| | | |
|---|--------------------------------|---|
| A | Platen Height Indicator | Indicates the height of the upper platen |
| B | Platen Support Bracket | Keeps the upper platen in the up position, useful while cleaning |
| C | High Limit | Interrupts the heater tube connections if the air temperature in the control box exceeds 190°F (88°C). This limit switch can be reset manually by pushing the button in the center of the switch. |
| D | Platen Height Knob | Controls the height of the upper platen |
| E | Locking Platen Latch | Keeps the upper platen in the down position. |
| F | Control Board | Controls the conveyor speeds, turns unit on & off, & temperature settings. |
| G | Foot | Silicone foot keeps unit firmly in place. |
| H | Crumb Tray | Slide out crumb tray used to catch particles from falling |
| I | Toaster Chute | Removable Chute returns product for easy access. |
| J | Conveyor | Takes the heel and crown separately through their toasting process |
| K | Burn Guard | Protects users from touching the conveyor belt |
| L | Durable Non-Stick Coated Sheet | Non-Stick surface between the upper platen and the product, allowing the product to slide easily through the toasting process. |
| M | Upper Platen Assy | Heating surface designed to toast the product as it slides across the surface |
| N | Optional Butter Wheel | Saves time for preparing buns for toasting |

GENERAL INFORMATION



CAUTION

This equipment is designed and sold for commercial use only by personnel trained and experienced in its operation and is not sold for consumer use in and around the home nor for use directly by the general public in food service locations.

Before using your new equipment, read and understand all the instructions & labels associated with the unit prior to putting it into operation. Make sure all people associated with its use understand the units operation & safety before they use the unit.

INSPECTION

UN-CRATING AND INSPECTING

Unpack the unit and components from the shipping container. Remove all visible packing material and those from inside the cooking chamber. If damage is discovered, file a claim immediately with the carrier that handled the shipment. Do not operate the unit if it was damaged during shipping. All shipping containers should be checked for freight damage both visible and concealed. This unit has been tested and carefully packaged to insure delivery of your unit in perfect condition. If equipment is received in damaged condition, either apparent or concealed, a claim must be made with the delivering carrier.

Concealed damage or loss - if damage or loss is not apparent until after equipment is unpacked, a request for inspection of concealed damage must be made with carrier within 15 days. Be certain to retain all contents plus external and internal packaging materials for inspection. The carrier will make an inspection and will supply necessary claim forms.

ELECTRICAL CONNECTION

Disconnect the unit from the power source before installing or removing any parts.

Be absolutely sure that the ground connection for the receptacle is properly wired. Do not connect equipment to power without proper ground connections. Improper grounding may result in personal injury or death.



CAUTION

Allow enough space around the toaster for adequate ventilation. Do not operate the unit without the crumb tray properly positioned. Overheating and poor toasting may occur. Read all labels on the unit and follow their instructions.



WARNING

Before making any electrical connection to this unit, check that the power supply is adequate for the voltage, amperage and requirements stated on the rating plate. A wiring diagram is included.



WARNING

DO NOT CUT OR REMOVE THIS PLUG OR THE GROUNDING PRONG FROM THE PLUG. FAILURE TO COMPLY MAY RESULT IN DEATH OR SERIOUS INJURY.



WARNING

CONNECT/PLUG UNIT INTO DEDICATED A. C. LINE ONLY SPECIFIED ON THE DATA PLATE OF THE UNIT.



CAUTION

SOME SURFACES ARE EXTREMELY HOT DURING OPERATION AND CARE SHOULD BE TAKEN WHILE USING THIS UNIT.

ASSEMBLY AND INSTALLATION

The unit was shipped fully assembled and ready to plug into a standard outlet specified for its voltage and amp draw. If improper electrical supply is determined, contact a qualified electrician prior to using the unit. Removal and replacement of the power cord and plug voids the warranty. For assistance, contact your local authorized service agent for service or required maintenance.

1. Place the unit in its operating location.
2. Wipe down the exterior with a damp cloth.
3. Place the Toaster Chute & Crumb Tray into position.
4. Unlock the Platen Latch and raise the platen, move the Platen Support Bracket to hold the platen in the up position.
5. Loosen the Sheet Retainer and install the non-stick sheet into position, and secure.
6. Lower the Platen and latch in place.

CAUTION

Failure to use non-stick sheets can lead to damaging the unit and a loss of warranty. The durable non-stick coated sheets are not a warranty item.

TOASTER SETTINGS

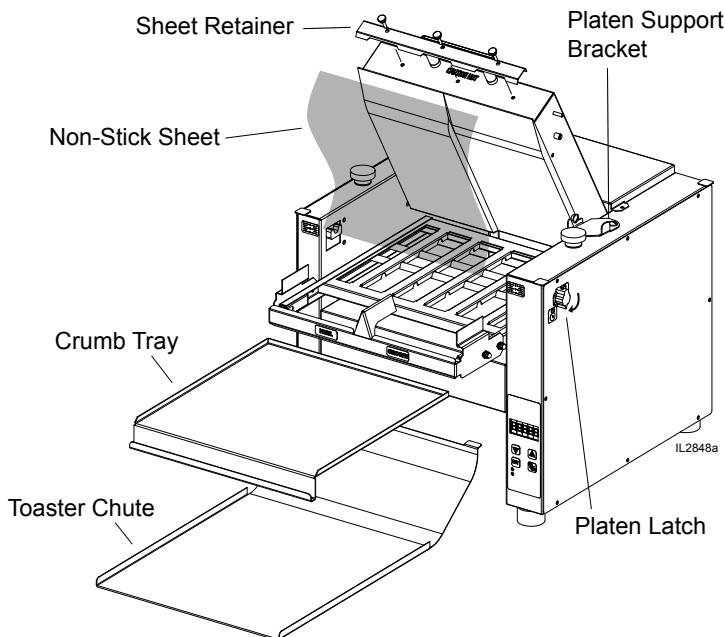
Before using the unit for the first time, test the pass time of the conveyor belt.

The pass time through the toaster should be between 16 to 20 seconds for standard setting.

1. Turn unit ON and wait for it to complete the PRE-HEAT process.
2. Set the Platen height by adjusting the two (2) Platen Height Knobs on top of the unit.
3. Make sure the platen lock is on.
4. Place a bun on the conveyor belt, cut side up, "HEEL" on one side and "CROWN" on the other.

IF TO DARK: Decrease TEMP.

IF TO LIGHT: Increase TEMP. or lower platen



DAILY OPERATION ELECTRONIC CONTROL

CHANGING TEMPERATURE

1. Push and hold the "SET TEMP" button for three seconds.
2. The display will flash the current top temperature setting.
3. Using the \uparrow and \downarrow adjust the top heat to desired temperature (increments of 10°)
4. Press the "SET TEMP" button again to change the bottom heat setting.
5. Using the \uparrow and \downarrow adjust the bottom heating setting (0 – 10).
6. Press the "SET TEMP" button again to save the settings and exit program mode.

CHANGING CONVEYOR SPEED

1. Push and hold the \uparrow and \downarrow for three seconds
2. Using the \uparrow and \downarrow adjust the motor speed to the desired setting (1 through 99)
3. Press the "SET TEMP" button to exit the program

CHECK TEMPERATURE SETTING

1. Press the "SET TEMP" button to check the platen temperature.

CLEAN MODE

1. Press the "CLEAN" button to enter the clean mode
 - a. Elements will be turned OFF and the belt will continue to run
 - b. The screen will flash CLEAN and WAIT.
 - c. When the platen has lowered to a safe temperature the screen will flash CLEAN and READY.
2. Press the "ON/OFF" button to exit the clean mode.

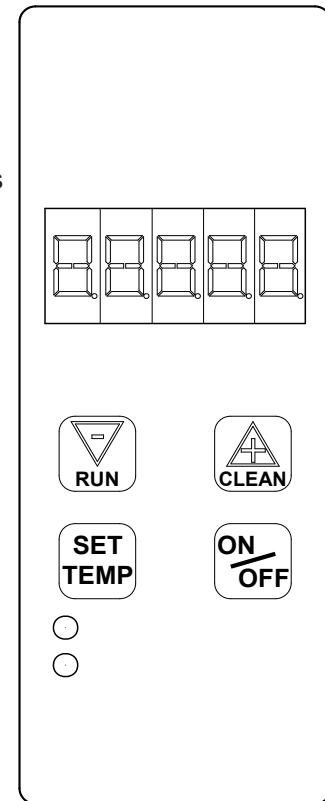
CHANGING BUN THICKNESS SETTING

1. Set the "Height Adjustment Knobs" to their desired settings.
2. Turn unit ON, allow to warm-up before proceeding.
3. Place buns on the conveyor, cut side up.
4. Toasted buns will drop down the toaster chute.
5. Turn the "Height Adjustment Knobs" to lower the platen for darker buns, raise for lighter buns.



CAUTION

CERTAIN SURFACES ARE EXTREMELY HOT DURING OPERATION AND CARE SHOULD BE TAKEN WHILE USING THIS UNIT.

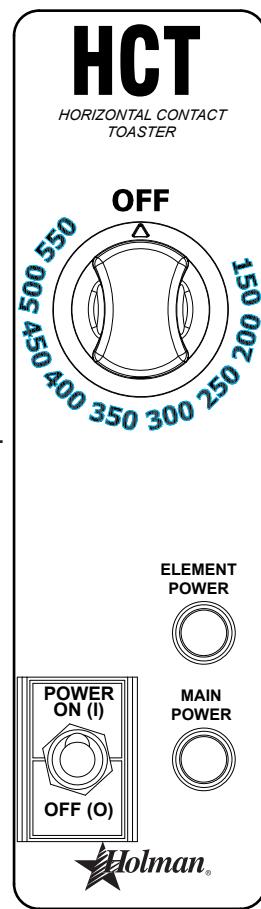


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DAILY OPERATION MANUAL CONTROL

OPERATING

1. Turn the Power Switch to the "ON" position
2. The conveyor belt will begin to move.
3. Using Temperature Knob, move it from the "OFF" position to your desired temperature.
4. The Element Power Light will turn "ON" when the unit is calling for heat. When your desired temperature is reached, the light will turn "OFF". Wait for the Element Power Light to cycle twice before using.
5. When finished using, turn the Temperature Knob to the "OFF" position, but leave the Power Switch in the "ON" position to allow the cooling fan to run.
6. Once cooled, move the switch to the "OFF" position.



CHANGING CONVEYOR SPEED

Changing conveyor speed is only capable on the electronically controlled units.



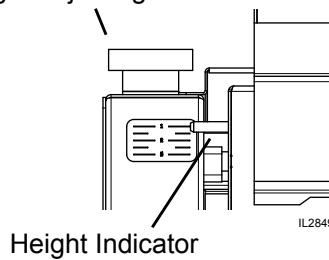
CERTAIN SURFACES ARE EXTREMELY HOT DURING OPERATION AND CARE SHOULD BE TAKEN WHILE USING THIS UNIT.

CAUTION

CHANGING BUN THICKNESS SETTING

1. Set the "Height Adjustment Knobs" to their desired settings.
2. Turn unit ON, allow to warm-up before proceeding.
3. Place buns on the conveyor, cut side up.
4. Toasted buns will drop down the toaster chute.
5. Turn the "Height Adjustment Knobs" to lower the platen for darker buns, raise for lighter buns.

Height Adjusting Knob



CLEANING

Preventive maintenance for your Ultra-Max Contact Toaster consists of the following recommended cleaning procedures. To keep your toaster in top operating condition, these steps should be performed daily or weekly as indicated.

Daily Cleaning

1. **MANUAL:** Turn the temp knob to the "OFF" position, and the power switch in the "ON" position.

ELECTRONIC: Press and hold the CLEAN button to enter cleaning mode.

a. The screen will flash "CLEAN" "WAIT" while the unit cools down to a safe temperature.

b. Unlock platen using knob on side, raise the platen and prop open to speed up cool down.

Always remove Butter before raising platen if used.

c. The screen will flash "CLEAN" "READY" when the unit has cooled to a safe temperature.

IMPORTANT: Allow the unit to cool before attempting to clean it.

2. Wipe down moving belt with mild detergent and damp cloth.
(an abrasive pad can be used on metal belt).

3. Wipe down exterior of toaster with mild detergent and damp cloth.

4. Remove non-stick sheet and clean with mild detergent and damp cloth. (If excess buildup is unable to be removed and causing buns to stick to the sheet, a new sheet may need to be installed.)

5. Remove crumb tray and toast slide and wash in a sink with mild detergent.

6. Dry and return crumb tray, toast slide, and non-stick sheet back into position.

7. Turn the power switch to the "OFF" position, until you need

DO NOT IMMERSE OR LET THE UNIT STAND IN WATER.
DO NOT HOSE DOWN THE UNIT OR THE TABLE/COUNTER IF THE UNIT IS ON THE TABLE/COUNTER.

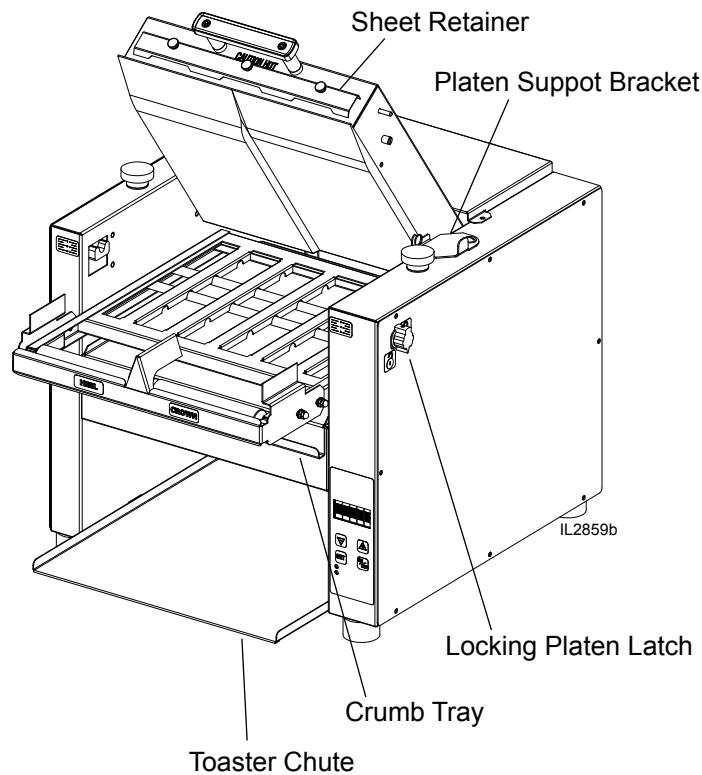
WARNING



KEEP AWAY FROM RUNNING WATER.

CAUTION

DO NOT use caustic cleaners on any surface of the unit, conveyor belt or Durable Non-Stick Coated Sheets



TROUBLESHOOTING GUIDE

A. Unit Will Not Heat, Conveyor Belt Will Not Move.

- 1) Be sure the main circuit breaker is switched to the ON
- 2) Check to see if the toaster is plugged in and all controls are turned to the ON position.

B. Unit Has Heat Only On One Side, Conveyor Belt Turns Freely.

- 1) Contact your local service agent,, as heating element may need replacing.

C. Conveyor Will Not Turn, Unit Heats Properly.

To check for mechanical binding:

- 1) **DISCONNECT UNIT FROM POWER SOURCE.**
- 3) Remove 4 screws on the back of the toaster and remove back panel.
- 4) Remove the right side panel.
- 5) Loosen the four screws that hold the drive motor in place.
- 6) Slide the motor up allowing the drive chain to be removed from the sprockets.
- 7) Move the conveyor belt by hand to check for mechanical binding. If conveyor moves freely, contact your local service agent,, as the drive motor and/or speed control may need replacing.
- 8) Re-install the rear and side panels.

D. Heat Limit Switch (Reset)

Your Ultra-Max contact toaster is equipped with an automatically activated heat limit switch that interrupts the heater tube connections if the ambient temperature in the control box exceeds 190°F (88°C). This switch can be reset manually by pushing the red button located behind the right side panel as shown in the Components Illustration on Page 2.

- 1) **DISCONNECT UNIT FROM POWER SOURCE.**
- 2) Check to see if air intake area in the bottom center of the control box cover is free of dust, grease or other obstructions.
- 3) Check if crumb tray is in place. .
- 4) If no obstructions to the airflow can be found contact your local service agent, for assistance.

E. Conveyor Turns At One Speed Regardless Of Speed Control Setting

(HCTE models only).

- 1) Contact your local service agent,, as speed control should be replaced.

F. Product Sticking To Conveyor Or Slide

Your Ultra-Max Contact Toaster is designed to toast product that is current room temperature.

DO NOT attempt to put frozen, refrigerated material in the toaster.

Doing so may cause it to come out doughy or very moist, as well as possibly sticking to parts of the unit. Follow the cleaning procedures.

MAINTENANCE PROCEDURES

A. Replacing the Bottom Element

- 1) **DISCONNECT UNIT FROM POWER SOURCE.**
- 2) Remove the side panels and bottom panel.
- 3) Remove element wire from terminal block connection, keeping top and bottom wires separate.
- 4) Lift element retainers by loosening retaining screws and removing the retainer plate up.
- 5) Gently, pull defective element out of unit.
- 6) Gently, put new element into unit.
- 7) Slide the retainer back into place. Tighten the screw to secure the retainer in place over the ends of the elements.

B. Replacing the Fan Motor

- 1) **DISCONNECT UNIT FROM POWER SOURCE.**
- 2) Remove the toaster slide.
- 3) Remove screws from the bottom panel.
- 4) Unplug power supply cord from fan motor.
- 5) Remove (4) screws, which hold fan motor and grill to bottom of unit and remove fan.
- 6) Put replacement motor and grill in place and secure to the bottom of unit with screws.
- 7) Reconnect power supply cord to fan motor.
- 8) Replace bottom panel. Fasten with screws removed in step 2.

C. Replacing the Belt Drive Motor

- 1) **DISCONNECT UNIT FROM POWER SOURCE.**
- 2) Remove the right side and bottom panels.
- 3) Remove sprocket from motor shaft, using an Allen wrench and loosening the set-screw.
- 4) Remove the wire from terminal block connecting the drive motor to internal wiring.
On units rated 208 or 240 volts, note which color leads are being used for these connections and which lead is capped with white tape. The new motor should use the same arrangement.
- 5) Remove screws holding motor in place and remove motor from unit.
- 6) Put new motor in place and attach loosely with mounting screws.
- 7) Replace sprocket on motor shaft.

NOTE The two sprockets should line up parallel with each other, so the chain does not twist any during operation. Also the hub gets installed closest to the motor.

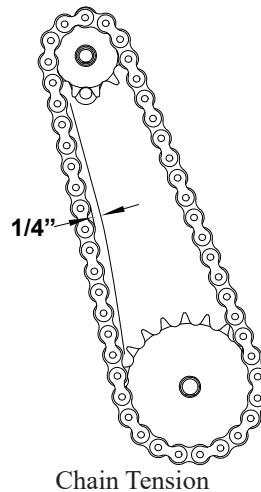
- 8) Slide motor until the drive chain has about 1/4" slack when lightly pushed at the center of its top open run. See *chain tensioning illustration*.
- 9) Tighten screws to secure motor.
- 10) Rewire leads same as removed in step 4.
- 11) Replace previously removed panels.

D. Clean the Air Intake (Once A Week)

- 1) **DISCONNECT UNIT FROM POWER SOURCE.**
- 2) Place unit on its backside.
- 3) Use a vacuum cleaner and or a damp cloth to clean the air intake.

E. Lubricate the Chain & Sprockets (Every 6 Months)

- 1) **DISCONNECT UNIT FROM POWER SOURCE.**
- 2) Remove enclosure exposing chain drive.
- 3) While wearing rubber gloves and using an extreme pressure, synthetic chain lubricant with a temperature range up to 400°F (204°C) lubricate chain and sprockets. Apply liberally. This grease is available as part no. **1L-Z12397**.
- 4) Replace enclosure, Reconnect power source and test unit.

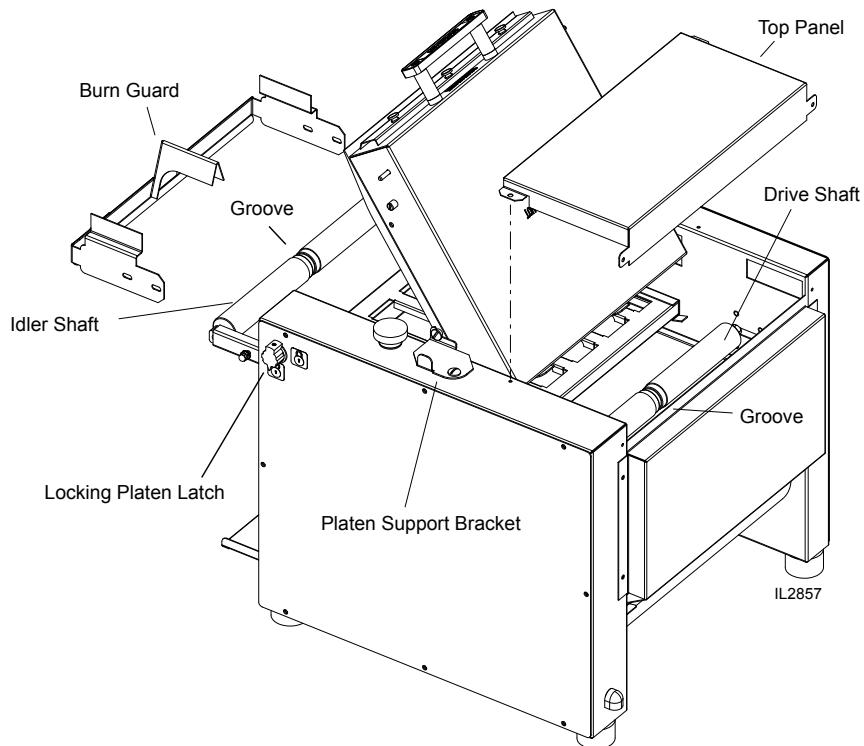


Chain Tension

MAINTENANCE continued

REMOVING & REPLACING SILICONE BELT

1. Disconnect unit from power allow to cool before beginning process.
2. Remove guard from in front of the belt.
3. Rotate belt by hand until belt seam is visible.
4. The Idler Shaft is spring loaded. Press on the front idler shaft to remove tension from the belt. (*Continuous pressure is required*).
5. Pull splicing rod from belt.
6. Carefully release pressure from idler shaft so the roller is not propelled from the unit by the springs.
7. Installation is similar to removal. Feed the belt around the drive shaft and idler shaft rollers making sure the tracking guide on the backside of the belt is seated in the roller grooves.
8. Press the front roller to create slack in the belt.
9. Feed the splicing rod through the two ends of the belt.
10. Remove pressure from roller and install belt guard.
11. Plug unit back into outlet and test for proper operation.



Above: Removing and Installing Silicone Belt



**DISCONNECT THE POWER SUPPLY BEFORE SERVICING OR
CLEANING THIS OVEN. SAFEGUARD THE POWER SO IT CANNOT BE
ACCIDENTALLY RESTORED. FAILURE TO DO SO COULD RESULT IN
DISMEMBERMENT, ELECTROCUTION, OR FATAL INJURY.**

LIMITED EQUIPMENT WARRANTY

Star Manufacturing [as well as its subsidiaries] warrants to the original purchaser of new Star products to be free from defects in material or workmanship, under normal and proper use and maintenance service as specified by Star and upon proper installation and start-up in accordance with the instructions supplied with each Star unit. Star's obligation under this warranty is limited to a period of one [1] year beginning from the date of original installation. The warranty period begins upon the date of original installation or up to six [6] months after the original shipment, from the factory, of the covered product. Defects that occur as a result of normal use, within the time period and limitations defined in this warranty, will at Star's discretion have the parts replaced or repaired by Star or a Star-authorized service agency.

THIS WARRANTY IS SUBJECT TO ALL LISTED CONDITIONS

Repairs performed under this warranty are to be performed by a Star authorized service agency. Star will not be responsible for charges incurred or service performed by non-authorized repair agencies. In all cases, the nearest Star-authorized service agency must be used. Star will be responsible for normal labor charges incurred in the repair or replacement of a warranted product within 50 miles (80.5 km) of an authorized service agency. Time and expense charges for anything beyond that distance will be the responsibility of the owner. All labor will need to be performed during regular service hours. Any overtime premium will be charged to the owner. For all shipments outside the U.S.A. and Canada, please see the International Warranty for specific details. It is the responsibility of the owner to inspect and report any shipping damage claims, hidden or otherwise, promptly following delivery. No mileage or travel charges will be honored on any equipment that is deemed portable. In general, equipment with a cord and plug weighing less than 50 lb. (22.7 kg) is considered portable and should be taken or shipped to the closest authorized service agency, transportation prepaid.

PORABLE EQUIPMENT EXAMPLES

- QCS1, QCS2, and RCS2 toasters
- Condiment dispensers

CONTACT

Should you require any assistance regarding the operation or maintenance of any Star Manufacturing, phone, email or fax our service department. In all correspondence provide the model number and serial number of the unit needing service; include the voltage or gas type.

Normal Business Hours: 8:00 a.m. to 5:00 p.m. Central

Telephone: 800-264-7827 Tech Service Option 2

Email: TechService@partstown.com

www.Star-Mfg.com

WARRANTY EXCLUSIONS

THE FOLLOWING WILL NOT BE COVERED UNDER WARRANTY.

Star's sole obligation under this warranty is limited to either repair or replacement parts, subject to the additional limitations detailed below. This warranty neither assumes nor authorizes any person to assume obligations other than those expressly covered by this warranty.

- Any product which has not been used, maintained, or installed in accordance with the directions published in the appropriate installation sheet and/or owner's manual, including incorrect gas or electrical connection. Star is not liable for any unit which has been mishandled, abused, misapplied, subjected to harsh chemicals, modified by unauthorized personnel, damaged by flood, fire, or other acts of nature [or God], or which have an altered or missing serial number.
- Installation, labor, and job checkouts, calibration of heat controls, air and gas burner/bypass/pilot adjustments, gas or electrical system checks, voltage and phase conversions, cleaning of equipment, or seasoning of griddle surface.
- Replacement of fuses or resetting of circuit breakers, safety controls, or reset buttons.
- Replacement of broken or damaged glass components, quartz heating elements, and light bulbs.
- Labor charges for all removable and consumable parts in gas charbroilers and hotplates, including but not limited to burners, grates, and radiants.
- Any labor charges incurred by delays, waiting time, or operating restrictions that hinder a service technician's ability to perform service.
- Replacement of parts that fail or are damaged due to normal wear or labor for replacement of parts that can be replaced during a daily cleaning routine, such as but not limited to silicone belts, PTFE non-stick sheets, control labels, knobs, bulbs, fuses, quartz heating elements, baskets, racks, and grease drawers.
- Any economic loss of business or profits.
- Non-OEM parts. Use of non-OEM parts without Star's approval will void the warranty.
- Units exceeding one [1] year from original installation date.

ADDITIONAL WARRANTIES

- Specific/chain-specific equipment may have additional and/or extended warranties.

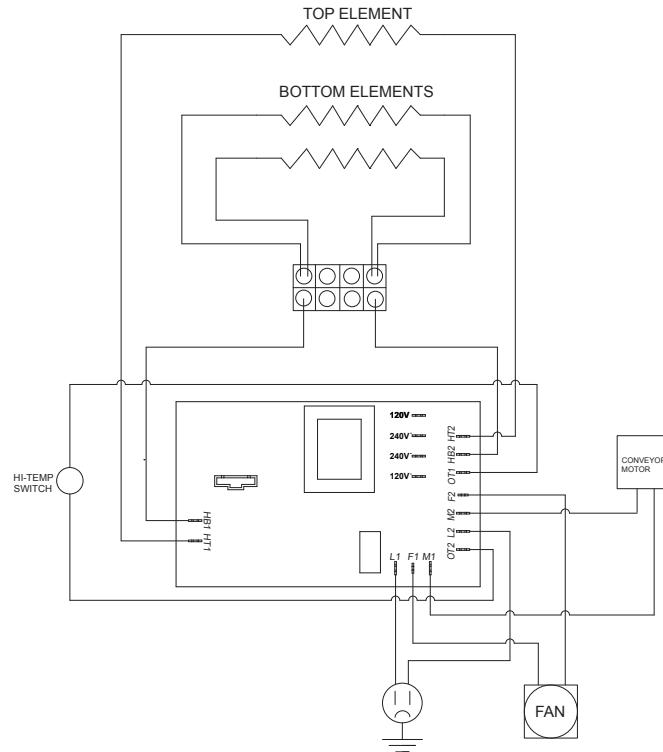
| PRODUCTS | PARTS | LABOR |
|---|---------|---------|
| Star Ultra Max ® fryers, griddles, charbroilers and hotplates | 2 years | 2 years |
| Star Max ® fryers, griddles, charbroilers and hotplates | 2 years | 2 years |
| Staltek™ roller grill coatings | 5 years | |
| Cast iron grates, burners and burner shields | 1 year | |
| Original Star, Toastmaster or Holman parts sold to repair equipment | 90 days | |

The foregoing warranty is in lieu of any, and all other warranties expressed or implied and constitutes the entire warranty.

| | | | |
|---|----------|-----------|---------------------------------|
|  STAR MANUFACTURING INTERNATIONAL INC. #10 SUNNEN DRIVE, ST. LOUIS, MO. 63143, USA DR. MRC CK. MH DATE 7/11/14 | MATERIAL | MODEL NO. | PART NO. |
| | FINISH | HCTE | SK-2798 |
| | | TITLE | WIRING DIAGRAM, PARALLEL BOTTOM |

TOLERANCES UNLESS OTHERWISE NOTED
FRACTIONS $\pm 1/64$ DECIMALS ± 0.015 ANGLES $\pm 1^\circ$

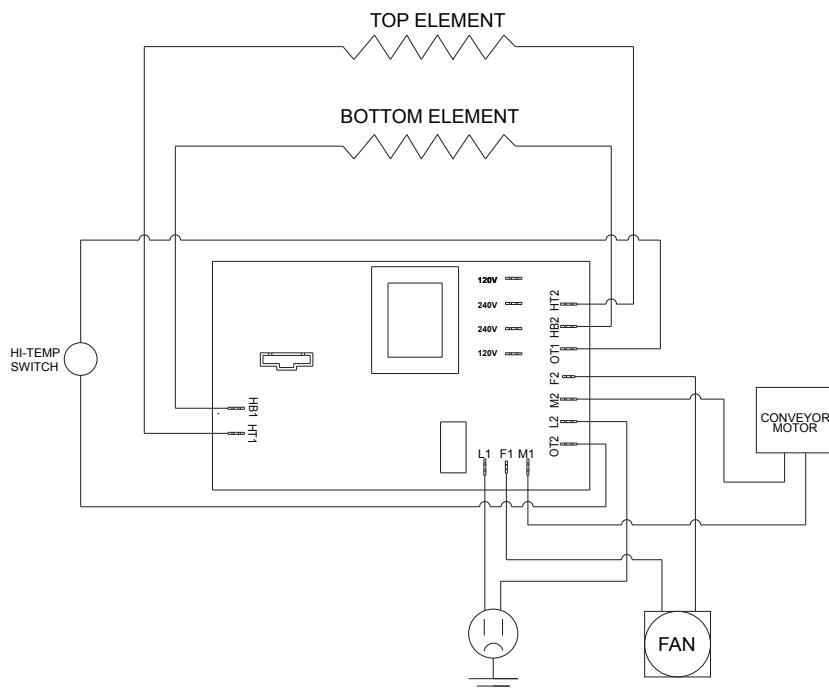
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| | | | |
|--|----------|-----------|-------------------------------|
|  STAR MANUFACTURING INTERNATIONAL INC. #10 SUNNEN DRIVE, ST. LOUIS, MO. 63143, USA DR. MRC CK. MH DATE 7/11/14 | MATERIAL | MODEL NO. | PART NO. |
| | FINISH | HCTE | SK-2799 |
| | | TITLE | WIRING DIAGRAM, SINGLE BOTTOM |

TOLERANCES UNLESS OTHERWISE NOTED
FRACTIONS $\pm 1/64$ DECIMALS ± 0.015 ANGLES $\pm 1^\circ$

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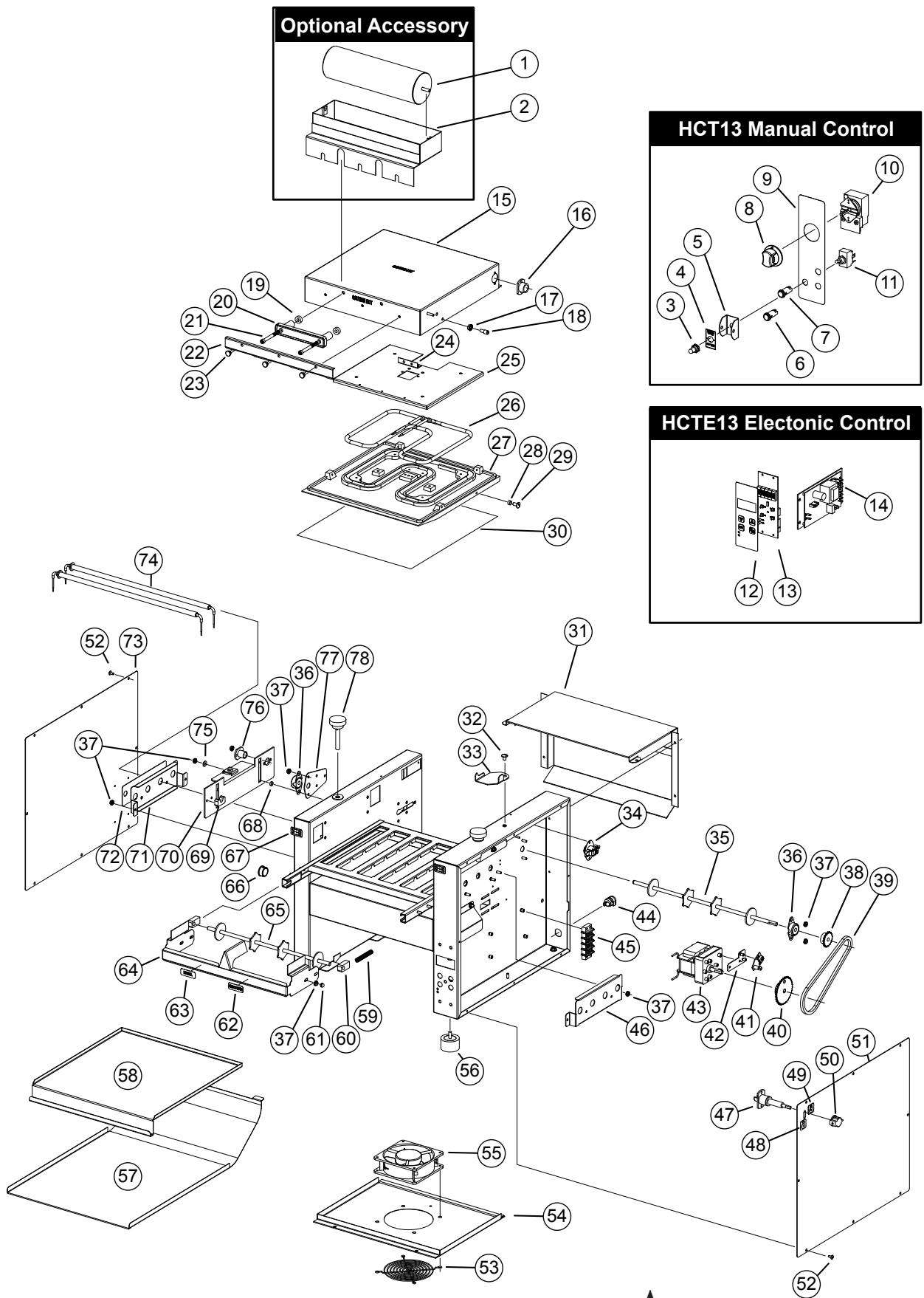


| | | | | | | | | |
|---|----------|--|---|--|--|----------|------------------------|-----------------------|
|  STAR MANUFACTURING INTERNATIONAL INC. #10 SUNNEN DRIVE, ST. LOUIS, MO. 63143, USA | | | MATERIAL | | MODEL NO. | | PART NO. | |
| DR. MRC | | | - | | HCT13M | | SK-2823 | |
| CK. MH | | | FINISH | | TITLE WIRING DIAGRAM, PARALLEL BOTTOM | | | |
| DATE | 10/23/14 | | - | | REVISIONS | LTR | DATE | DESCRIPTION OF CHANGE |
| TOLERANCES UNLESS OTHERWISE NOTED | | | THIS DRAWING CONTAINS INFORMATION CONFIDENTIAL TO STAR MFG. INT'L. INC. | | A | 10/31/18 | MOVED WIRE #6 FROM AUX | |
| FRACTIONS $\pm 1/64$ DECIMALS $\pm .015$ ANGLES $\pm 1^\circ$ | | | NO REPRODUCTION OR DISCLOSURE OF ITS CONTENTS IS PERMITTED. | | | | DLH | |

| | | | | | | | | | |
|--|--|--|--|--|-------------------------------------|----------|------------------------|-----------------------|-----|
| STAR MANUFACTURING INTERNATIONAL INC. ⑤ #10 SUNNEN DRIVE, ST. LOUIS, MO. 63143, USA | | | MATERIAL - | | MODEL NO. HCT13S | | PART NO. SK-2824 | | |
| DR. MRC CK. MH DATE 10/23/14 | | | FINISH - | | TITLE WIRING DIAGRAM, SINGLE BOTTOM | | | | |
| | | | | | REVISIONS | LTR | DATE | DESCRIPTION OF CHANGE | DR |
| TOLERANCES UNLESS OTHERWISE NOTED FRACTIONS ±1/64 DECIMALS ±.015 ANGLES ±1° | | | THIS DRAWING CONTAINS INFORMATION CONFIDENTIAL TO STAR MFG. INT'L. INC. NO REPRODUCTION OR DISCLOSURE OF ITS CONTENTS IS PERMITTED. | | A | 10/31/18 | MOVED WIRE #6 FROM AUX | | DLH |

HI-TEMP SWITCH

NOTE: WIRE #'S REFER TO STAR DWG 2E-Z19338-WIRING KIT, HCT



**Model: HCTE & HCT Contact Toasters
w/electronic & manual controls**



PARTS LIST

October 13, 2015, Rev. E

| Model: HCTE13 & HCT13 Contact Toaster | | | | |
|---------------------------------------|---------------|----------|-------------------------------|-------------|
| Fig No | Part No | Quantity | Description | Application |
| 1 | HC-CT0018 | Optional | Butter Wheel Weldment | |
| 2 | HC-CT0017 | Optional | Butter Wheel Base Weldment | |
| 3 | 2I-05-07-0013 | 1 | BOOT SWITCH | HCT13 |
| 4 | 2M-Z18461 | 1 | LABEL, POWER, ON & OFF | HCT13 |
| 5 | Z1-70-07-0343 | 1 | SWITCH GUARD | HCT13 |
| 6 | 2J-31157 | 1 | LIGHT SIGNAL RED, MAIN POWER | HCT13 |
| 7 | 2J-31157 | 1 | LIGHT SIGNAL RED, ELEMENT PWR | HCT13 |
| 8 | 2R-Z18145 | 1 | KNOB, SG 1.75 X .25 SHAFT | HCT13 |
| 9 | 2M-Z19266 | 1 | LABEL, HCT | HCT13 |
| 10 | 2T-Z18396 | 1 | THERMOSTAT, 150-550°F | HCT13 |
| 11 | 2E-30330 | 1 | SWITCH ON OFF TOGGLE 20A | HCT13 |
| 12 | 2M-Z18207 | 1 | LABEL, HCTE | HCTE13 |
| 13 | 2J-Z17717 | 1 | ELECTRONIC CONTROL SPEC | HCTE13 |
| 14 | 2U-200592 | 1 | QCSE PWRBRD,W/RIBBONCABLE | HCTE13 |
| 15 | HC-CT0005 | 1 | PLATEN COVER ASY | |
| 16 | 2K-Z17714 | 2 | BUSHING, OUTER | |
| 17 | 2C-6517 | 6 | NUT 1/4-20 HEX STL NP | |
| 18 | 2A-Z17716 | 2 | SUPPORT, 1/4-20 X 11/32 | |
| 19 | 2A-Z17727 | 2 | SPACER, 5/8"OD X 0.266"ID | |
| 20 | 2R-Y2830 | 1 | HANDLE HARRY DAVIES 4560 | |
| 21 | 2C-Z18503 | 2 | SCREW, SOCKET CAP 1/4-20 | |
| 22 | HC-Z17713 | 1 | RETAINER, PTFE SHEET | |
| 23 | 2A-Z17712 | 3 | THUMBSCREW 8-32 X .375 | |
| 24 | HC-Z17724 | 1 | THERMOPROBE BRKT | HCTE13 |
| 25 | HC-Z17711 | 1 | ELEMENT COVER | |
| 26 | 2N-Z17710 | 1 | ELEMENT, METAL 2300W 240V | 240V, 230V |
| | 2N-Z17749 | | ELEMENT, METAL 2300W 208V | 208V |
| 27 | 2F-Z17708 | 1 | 13" TOP CASTING | |
| 28 | 2A-Z18504 | 1 | SPACER, 3/8IN X 1/4IN | |
| 29 | 2C-Y7595 | 1 | BOLT 1/4-20X1/2 THS STL | |
| 30 | 2H-Z18588 | 1 | PTFE SHEET, 0.003 TK | |
| 31 | HC-CT0006 | 1 | BACK PANEL ASY | |
| 32 | 2C-Z10075 | 1 | SCREW-1/4-20X3/8 SS THS | |
| 33 | HC-Z17737 | 1 | PLATEN SUPPORT BRKT | |
| 34 | 2E-200566 | 1 | SWTCH,RSET,0796-190F TRPS | |
| 35 | 2A-CT0015 | 1 | BELT DRIVE SHAFT ASSEMBLY | HCTE13M |
| | 2A-CT0015SB | | | HCTE13S |
| 36 | HA-112261 | 2 | BEARING ASSY PTFE/BRONZE | |
| 37 | 2C-Z6929 | 34 | NUT, 10-24 KEPS SS | |
| 38 | 2P-200646 | 1 | SPROCKET, 25B20 X 5/16 | |

PARTS LIST

October 13, 2015, Rev. E

| Model: HCTE13 & HCT13 Contact Toaster | | | | |
|---------------------------------------|-------------|----------|----------------------------|-------------|
| Fig No | Part No | Quantity | Description | Application |
| 39 | 2P-150013 | 1 | DRIVE CHAIN #25 ROLLER | |
| 40 | 2P-200648 | 1 | SPROCKET, 25B32 X 5/16 | |
| 41 | 2E-Z17514 | 1 | SENSOR, SPEED | HCTE13 |
| 42 | HC-CT0008 | 1 | SPEED CONTROL BRKT ASY | HCTE13 |
| 43 | 2U-Z9657 | 1 | MOTOR, 11RPM-CW, NEW STYLE | |
| 44 | 2K-Y3240 | 1 | BUSHING HEYCO SR 17-2 | |
| 45 | 2E-Z10406 | 1 | TERMINAL BLOCK 4 POS | HCTE13M |
| | 2E-Z14254 | | TERMINAL BLOCK 6-POLE | HCT13 |
| 46 | HC-CT0013 | 1 | RIGHT ADJUSTMENT BRKT ASY | |
| 47 | HC-CT0014 | 1 | PLATEN LATCH ASY | |
| 48 | 2M-Z18513 | 1 | LABEL, UNLOCK SYMBOL | |
| 49 | 2M-Z18512 | 1 | LABEL, LOCK SYMBOL | |
| 50 | 2R-Z17729 | 1 | KNOB, 1-1/4 X 5/8 X 1/2 | |
| 51 | HC-Z17742 | 1 | PANEL, RIGHT COVER | |
| 52 | 2C-6349 | 24 | SCREW #8X3/8 B THP STL NP | |
| 53 | 2R-200562 | 1 | FAN GUARD | |
| 54 | HC-Z17740 | 1 | MOTOR HOUSING COVER | |
| 55 | 2U-200561 | 1 | MOTOR, FAN 240V 23BTM | |
| 56 | 2R-Z18201 | 4 | FOOT 1.69X1 SIL 1/4 20 | |
| 57 | HC-Z17723 | 1 | TOAST SLIDE | |
| 58 | HC-Z17736 | 1 | CRUMB TRAY | |
| 59 | 2P-Z18587 | 2 | BEARING SPRING 2IN | |
| 60 | 2P-200700 | 2 | BRG SPRING LOADED | |
| 61 | 2C-2559 | 4 | NUT 10-24 ACHD BR NP | |
| 62 | 2M-Z17750 | 1 | LABEL, CROWN | |
| 63 | 2M-Z17735 | 1 | LABEL, HEEL | |
| 64 | HC-CT0009 | 1 | BELT GUARD ASM | |
| 65 | 2A-CT0016 | 1 | BELT IDLER SHAFT ASSEMBLY | HCTE13M |
| | 2A-CT0016SB | | | HCTE13S |
| 66 | 2K-200464 | 2 | BUSHING, WIRE RING 7/8" | |
| 67 | 2M-Z18258 | 2 | LABEL, SCALE | |
| 68 | 2A-Z17720 | 8 | SPACER-.375"OD X .192"ID | |
| 69 | 2V-Z17744 | 1 | PLATEN SUPPORT | |
| 70 | HC-CT0012 | 1 | LEFT ADJUSTMENT BRKT ASY | |
| 71 | HC-CT0007 | 2 | ELEMENT SUPPORT ASY | |
| 72 | HC-Z17731 | 1 | ELEMENT RETAINER | |
| 73 | HC-Z17741 | 1 | PANEL, LEFT COVER | |

PARTS LIST

October 13, 2015, Rev. E

Model: HCTE13 & HCT13 Contact Toaster

| Fig No | Part No | Quantity | Description | Application |
|--------|-----------|----------|----------------------------|-------------|
| 74 | 2N-Z17718 | 1 | ELEMENT, METAL 350W 240V | HCTE13S |
| | 2N-Z17718 | 2 | ELEMENT, METAL 350W 240V | HCTE13M |
| 75 | 2C-1810 | 16 | WASHER 3/16 BURR STL NP | |
| 76 | 2K-Z17715 | 2 | BUSHING, INNER | |
| 77 | HC-Z16924 | 1 | SHAFT ACCESS COVER PLATE | |
| 78 | 2A-CT0011 | 2 | ADJUSTMENT KNOB ASY | |
| NI | 2E-Z17719 | 1 | TYPE K PROBE | HCTE13 |
| NI | 2B-Z17743 | 1 | CONVEYOR BELT CG10 X.062 | |
| NI | PS-CT0034 | 1 | SILICONE BELT, 13" X 41.04 | |
| NI | HA-120244 | 1 | CORDSET ASSY QCS1-230C | 230V |
| NI | HA-120245 | 1 | CORDSET ASSY NEMA 6-20P | 208,240V |



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